



ODISHA POWER GENERATION CORPORATION LIMITED
IB THERMAL POWER STATION
At/PO: BANHARPALI, DIST: JHARSUGUDA – 768 234 (ODISHA)
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NOTICE INVITING EXPRESSION OF INTEREST

EOI No . ITPS/CC-22/2012/01

Date: 10/02/2012

Expression of interest is invited from the reputed registered Firms / Companies having online experience, Provident Fund Registration Certificate, Service Tax Registration Certificate, valid Income Tax PAN for " Providing consultancy Services for the following works at IBTPS, Banharpali.

1. Plant upgradation/up rating, for full capacity utilization using lower grade coal than design
2. R&M with up rating & efficiency improvement of the plant for unit capacity enhancement, using imported coal blending or feeding washed coal having higher GCV than design coal .

Last date of submission of EOI: up to 23-04-2012

For detail information; please visit to our website "www.opgc.co.in"

Sd/- , Chief Manager (PSM)-Purchase Contracts (Mob.9338715424)

SAFE & CLEAN POWER IS OUR COMMITMENT

Brief about OPGC:

OPGC is a joint venture company with 51% stake of Govt. of Odisha and 49% stake of AES India. The Company has two Coal fired Units of BHEL make of capacity 2x210MW located at IB Thermal Power Station, Banharpali in the district of Jharsuguda, Odisha. It is an ISO-14001 and OHSAS-18001 certified company

Brief description of the proposed works:

1. Plant up gradation/up rating for full capacity utilization using lower grade coal than design:

OPGC is currently, loosing around 6 to 7 percentage of generation on account of coal quality on yearly basis. Although we have a FSA with coal supplier for supplying coal of F grade i.e. coal GCV above 3000 kcal/kg, we are not getting that kind of coal consistently throughout the year. So, for improving generation we are now feeding more coal than design quantity by running extra mill elevation, which sometimes costs us more due to mill explosions with single elevation operation in ball tube mills. Also, ash loading on ESP increases. The coal mills are BHEL make BBD11-4760, 105 T/H capacities. The boiler is BHEL make with design MCR SH steam flow 690 T/H, NCR steam flow 637 T/H. The design coal GCV is 3000kcal/kg. Design coal quantity at MCR is 178 T/H and design NCR coal quantity is 166 T/H.

In view of the above, OPGC is planning to upgrade or renovate the milling system so that with even 2500 kcal/kg GCV coal OPGC will be able to generate full 210 MW by feeding higher quantity of coal. For that it is proposed to hire a consultancy service from an external agency to carry out a detailed survey /study on the existing milling

system, boiler etc and to suggest for a proposal with estimated budget requirement for generating full 210 MW with low grade coal.

Deliverables:

- a) Survey of the existing milling & boiler System.
- b) Study of our existing system and proposal for system up gradation/system up rating with minimum cost and minimum change to our existing system.
- c) Approximate budget estimate for upgraded system for supply, erection, commissioning and the timeline.

The study & recommendation on the impact of excess coal feeding and the remedial measures in view of environmental compliance requirement.

Consultant's organization & experience:

The Consultant is expected to have adequate expertise & experience in providing consultancy service in the field of pulverized fuel boiler and ball & tube milling system of thermal power plant and also expertise on R&M/performance improvement/capacity enhancement of the milling system and its effects on the other systems. All the interested Consultants/Agencies shall have to submit their credentials along with their EOI Through mail or by post/First Flight Courier service.

Evaluation process:

The interested bidders shall be called to site at ITPS to give their presentation on the above field and share their experiences. Based on the credentials and the presentation, the agencies shall be shortlisted. RFQ shall be invited only from the short listed agency/ consultants.

Time period: Three months for complete study and submission of report.

EOI must contain the name of the company/Firm, credentials, name of the contact person with address, contact number (cell No., Fax no., e-mail ID etc.). The agency must have taken at least one such project in last five years.

2. R&M with up rating & efficiency improvement of the plant for unit capacity enhancement using imported coal/washed coal having higher GCV than design GCV:

OPGC has been operating 2x210MW Units at ITPS, Banharpali in the district of Jharsuguda, and Odisha for last seventeen years. The Turbine is BHEL make KWU design having nominal rating of 210 MW, Peak loading of 230 MW. The Generator is BHEL make having MW rating of 210 MW, 247 MVA. The boiler is BHEL make with design MCR SH steam flow 690 T/H, NCR steam flow 637 T/H. The design coal GCV is 3000kcal/kg. Design coal quantity at MCR is 178 T/H and design NCR coal quantity is 166 T/H.

OPGC is planning to do performance improvement/ upgrade/up rate the system for capacity enhancement. It is proposed to hire a consultancy service from an external agency to do an extensive survey /study on the existing system and suggest for any changes or modification to be carried out for up rating/capacity enhancement using imported coal or washed coal along with estimated budget requirement for supply, erection, commissioning and the time line. Further, the scope also includes the study & recommendation of auxiliary system up graduation requirement.

Deliverables by consulting agency:

- a) Survey of the existing mills, boiler, TG & auxiliary system.

- b) Study on the whole system at ITPS.
- c) Recommended solutions.
- d) Approximate budget estimate for carrying out the above study.
- e) Estimation of time for supply, erection and commissioning, if there is any.

Consultant's organization & experience:

The Consultant is expected to have adequate expertise & experience in providing consultancy service in the field of R&M/up rate the capacity/performance improvement /system up gradation. All the interested Consultants/Agencies shall have to submit their credentials along with their EOI Through mail or by post/First Flight Courier service.

Evaluation process:

The interested bidders shall be called to site at ITPS to give their presentation on this field and their experience. Based on the credentials and the presentation, the agencies shall be shortlisted. RFQ shall be invited only from the short listed agency/ consultants.

Time period: Three months for complete study and submission of report.

EOI must contain the name of the company/Firm, credentials, name of the contact person with address, contact number (Cell No., Fax no., e-mail ID etc.). The agency must have executed at least one such project in last five years.

The Prospective bidders list:

- a) BHEL
- b) Seimens
- c) TCE
- d) Black & Veath
- e) L&T
- f) NTPC
